This listing of claims will replace all prior versions, and listings, of claims in the

application:

## In the Claims:

(CURRENTLY AMENDED) A composition comprising a pharmaceutically acceptable formulation of formula 1

$$R_{5}$$
 $R_{6}$ 
 $R_{7}$ 
 $R_{7}$ 
 $R_{7}$ 

Formula 1

wherein R<sub>2</sub> to R<sub>2</sub>, and Y<sub>4</sub> R<sub>3</sub> is C<sub>1</sub>-C<sub>10</sub> alkyl; R<sub>4</sub> to R<sub>7</sub> are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, C1-C10 aminoalkyl, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, C1-C10 aryl, -SO<sub>2</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CHa),CONH(CHa),SOaT, -(CHa),NHCO(CHa),SOaT, -(CHa),NHCONH(CHa),SOaT, -(CH2)aNHCSNH(CH2)hSO3T, -(CH2)aOCONH(CH2)hSO3T, -(CH2)aPO3HT, -(CH2)aPO3T2, -(CHo)aOPOaHT, -(CHo)aOPOaTo, -(CHo)aNHPOaHT, -(CHo)aNHPOaTo, -(CHo)aCOo(CHo)aPOaHT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CHa)aCONH(CHa)hPOaHT. -(CHa)aCONH(CHa)hPOaTo. -(CHa)aNHCO(CHa)hPOaHT. -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>7</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>0</sub>)<sub>0</sub>NHCSNH(CH<sub>0</sub>)<sub>0</sub>PO<sub>2</sub>HT, -(CH<sub>0</sub>)<sub>0</sub>NHCSNH(CH<sub>0</sub>)<sub>0</sub>PO<sub>2</sub>T<sub>0</sub>, -(CH<sub>0</sub>)<sub>0</sub>OCONH(CH<sub>0</sub>)<sub>0</sub>PO<sub>2</sub>HT. [[and]] -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -CH<sub>2</sub>(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>a</sub>-CH<sub>2</sub>-OH, -(CH<sub>2</sub>)<sub>d</sub>-CO<sub>2</sub>T, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>e</sub>-CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>r</sub>NH<sub>2</sub>, -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>e</sub>-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>h</sub>-N(R<sub>a</sub>)-(CH<sub>2</sub>)<sub>i</sub>-CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>1</sub>-N(R<sub>b</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>-CH<sub>2</sub>-CO<sub>2</sub>T; Y<sub>1</sub> is independently selected from the group consisting of C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, C1-C10 aminoalkyl, hydrophilic peptides, arylpolysulfonates, C1-C10 aryl, -(CH<sub>2</sub>)<sub>3</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>3</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>3</sub>NHSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>3</sub>OCO(CH<sub>2</sub>)<sub>5</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH2)aNHCSNH(CH2)bSO3T, -(CH2)aOCONH(CH2)bSO3T, -(CH2)aPO3HT, -(CH2)aPO3T2, -(CH<sub>2</sub>)<sub>3</sub>OPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>3</sub>OPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>3</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>3</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>2</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>3</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>2</sub>OCO(CH<sub>2</sub>)<sub>3</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>2</sub>OCO(CH<sub>2</sub>)<sub>3</sub>PO<sub>3</sub>T<sub>2</sub>,

-(CH<sub>2</sub>)\_CONH(CH<sub>3</sub>)\_PO<sub>3</sub>HT, -(CH<sub>3</sub>)\_CONH(CH<sub>3</sub>)\_PO<sub>3</sub>Tz, -(CH<sub>3</sub>)\_NHCO(CH<sub>3</sub>)\_PO<sub>3</sub>HT, (CH<sub>3</sub>)\_NHCO(CH<sub>3</sub>)\_PO<sub>3</sub>Tz, -(CH<sub>3</sub>)\_NHCONH(CH<sub>3</sub>)\_PO<sub>3</sub>TT, -(CH<sub>3</sub>)\_NHCONH(CH<sub>3</sub>)\_PO<sub>3</sub>Tz,
-(CH<sub>3</sub>)\_NHCSNH(CH<sub>3</sub>)\_PO<sub>3</sub>Tz, -(CH<sub>3</sub>)\_NHCSNH(CH<sub>3</sub>)\_PO<sub>3</sub>Tz, -(CH<sub>3</sub>)\_CONH(CH<sub>3</sub>)\_PO<sub>3</sub>TT,
-(CH<sub>3</sub>)\_COONH(CH<sub>3</sub>)\_PO<sub>3</sub>Tz, -CH<sub>3</sub>(CH<sub>3</sub>-O-CH<sub>3</sub>)\_CH<sub>3</sub>-CH<sub>3</sub>-CO<sub>3</sub>T, -(CH<sub>3</sub>)\_CO<sub>3</sub>T, -(CH<sub>3</sub>)\_CO<sub>3</sub>T,
-(CH<sub>3</sub>)\_NH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CO<sub>3</sub>T,
-(CH<sub>3</sub>)\_NH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub>3</sub>)\_CH<sub>3</sub>-(CH<sub></sub>

- 2. (CURRENTLY AMENDED) The composition of claim 1 wherein R<sub>0</sub>-to-R<sub>2</sub>, and ¥<sub>1</sub>, <u>B<sub>1</sub> to B<sub>7</sub>, are independently selected from the group consisting of +H, C1-C5 alkoxyl, C1-C5 polyalkoxyalkyl, C1-C10 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, mono- and disaccharden, nitro, hydrophillic peptides, arylpolysulfonates, C1-C5 alkyl, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CO(C(H<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -CH<sub>2</sub>(CH<sub>2</sub>-C-CH<sub>2</sub>)<sub>a</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-C</u>
- 3. (CURRENTLY AMENDED) The composition of claim [[2]] 1 wherein R3 is C1 alkyl; each [[R3,]] of R4, R5, R6 and R7 is H[[,]]; R5+6-SO<sub>2</sub>T, Y1 is +(CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>T -CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>3</sub>-CH<sub>2</sub>-CO<sub>2</sub>T; W1 is -C(CH<sub>3</sub>)<sub>5</sub>: e is 1; and T is a negative charge.

(PREVIUOSLY PRESENTED)
 A method for performing a diagnostic procedure which comprises administering to an individual an effective amount of a composition comprising formula

$$R_6$$
 $R_7$ 
 $N_1$ 
 $N_1$ 
 $N_2$ 
 $N_3$ 
 $N_4$ 
 $N_4$ 
 $N_5$ 

Formula 1

wherein R<sub>3</sub> to R<sub>7</sub>, and Y<sub>1</sub> are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, C1-C10 aminoalkyl, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C6-C10 alkyl, C1-C10 aryl, -SO<sub>2</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>2</sub>OSO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>3</sub>NHSO<sub>2</sub>T. -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>SO<sub>2</sub>T. -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OPO<sub>3</sub>T<sub>2</sub>, -(CHa)aNHPOaHT, -(CHa)aNHPOaTa, -(CHa)aCOa(CHa)aPOaHT, -(CHa)aCOa(CHa)aPOaTa, -(CH<sub>2</sub>)<sub>8</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>8</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>8</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH2)aNHCONH(CH2)bPO3HT, -(CH2)aNHCONH(CH2)bPO3T2, -(CH2)aNHCSNH(CH2)bPO3HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, and -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -CHo(CHo-O-CHo)a-CHo-OH, -(CHo)a-COoT, -CHo-(CHo-O-CHo)a-CHo-COoT, -(CHo)a-NHo, -CHo-(CHo-O-CHo),-CHo-NHo, -(CHo),-N(Ra)-(CHo);-COoT, and -(CHo);-N(Rb)-CHo-(CHo-O-CHo),-CHo-CO<sub>2</sub>T; W<sub>1</sub> is selected from the group consisting of -CR<sub>2</sub>R<sub>4</sub>, -O-, and -NR<sub>6</sub>; a, b, d, f, h, i, and j independently vary from 1-10; c, e, g, and k independently vary from 1-100; Ra, Rb, Rc, and Rd are defined in the same manner as Y<sub>1</sub>; T is either H or a negative charge.

5. (PREVIOUSLY PRESENTED)

The method for performing the diagnostic or therapeutic procedure of claim 4 which comprises administering to an individual an effective amount of the composition wherein R<sub>3</sub> to R<sub>7</sub>, and Y<sub>1</sub> are independently selected from the group consisting of C1-C5 alkoxyl, C1-C5 polyalkoxyalkyl, C1-C10 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, mononid disaccharides, nitro, hydrophilic peptides, arylpolysulfonates, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH<sub>3</sub>, CSO<sub>3</sub>T, -(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(CH<sub>3</sub>)<sub>3</sub>CO<sub>3</sub>(

-(CH<sub>2</sub>)<sub>0</sub>CO(CH<sub>2</sub>)<sub>0</sub>SO<sub>3</sub>T, -CH<sub>2</sub>(CH<sub>2</sub>-O CH<sub>2</sub>)<sub>0</sub>-CH<sub>2</sub>-OH, -(CH<sub>2</sub>)<sub>0</sub>-CO<sub>2</sub>T, -CH<sub>2</sub>-(CH<sub>2</sub>-O CH<sub>2</sub>)<sub>0</sub>-CH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>0</sub>-NH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>0</sub>-NH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>0</sub>-NH<sub>2</sub>-CO<sub>2</sub>T, -(CH<sub>2</sub>)<sub>0</sub>-CO<sub>2</sub>T, (N<sub>1</sub>-Selected from the group consisting of -CR<sub>2</sub>R<sub>0</sub>, -O-, and -NR<sub>0</sub>; a, b, d, f, h, l, and j independently vary from 1-5; c, e, g, and k independently vary from 1-20; R<sub>3</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub> and R<sub>4</sub> are defined in the same manner as Y<sub>1</sub>, T is a negative charge.

- 6. (PREVIOUSLY PRESENTED) The method for performing the diagnostic or therapeutic procedure of claim 5 which comprises administering to an individual an effective amount of the composition wherein each R<sub>3</sub>, R<sub>4</sub>, R<sub>6</sub> and R<sub>7</sub> is H, R<sub>5</sub> is SO<sub>3</sub>T, Y<sub>1</sub> is -(CH<sub>2</sub>)<sub>3</sub>SO<sub>3</sub>T; W<sub>1</sub> is -C(CH<sub>3</sub>)<sub>2</sub>;
  T is a negative charge.
- 7. (ORIGINAL) The method of claim 4 wherein said procedure utilizes light of wavelength in the region of 350-1300 nm.
- (ORIGINAL) The method of claim 4 wherein said diagnostic procedure comprises monitoring a blood clearance profile by fluorescence wherein light of wavelength in the region of 350 to 1300 nm is utilized.
- (ORIGINAL) The method of claim 4 wherein said diagnostic procedure comprises monitoring a blood clearance profile by absorption wherein light of wavelength in the region of 350 to 1300 nm is utilized.
- (ORIGINAL) The method of claim 4 wherein said procedure is for physiological function monitoring.
- 11. (ORIGINAL) The method of claim 10 wherein the diagnostic procedure is for renal function monitoring.
- 12. (ORIGINAL) The method of claim 10 wherein the diagnostic procedure is for cardiac function monitoring.
- 13. (ORIGINAL) The method of claim 10 wherein the diagnostic procedure is for kidney function monitoring.
- 14. (ORIGINAL) The method of claim 10 wherein the diagnostic procedure is for determining organ perfusion in vivo.

15. (PREVIOUSLY PRESENTED) A composition comprising a pharmaceutically acceptable formulation of formula 1

$$R_6$$
 $R_7$ 
 $N_1$ 
 $R_3$ 

Formula 1

wherein R<sub>3</sub> to R<sub>7</sub>, and Y<sub>1</sub> are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, C1-C10 aminoalkyl, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T. -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>0</sub>)<sub>0</sub>OCONH(CH<sub>0</sub>)<sub>0</sub>SO<sub>2</sub>T, -(CH<sub>0</sub>)<sub>0</sub>PO<sub>3</sub>HT, -(CH<sub>0</sub>)<sub>0</sub>PO<sub>2</sub>T<sub>0</sub>, -(CH<sub>0</sub>)<sub>0</sub>OPO<sub>3</sub>HT, -(CH<sub>0</sub>)<sub>0</sub>OPO<sub>3</sub>T<sub>0</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, and -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -CHo(CHo-O-CHo),-CHo-OH, -(CHo),-COoT, -CHo-(CHo-O-CHo),-CHo-COoT, -(CHo),-NHo, -CHo-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>n</sub>-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>n</sub>-N(R<sub>n</sub>)-(CH<sub>2</sub>)<sub>i</sub>-CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>i</sub>-N(R<sub>n</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>-CH<sub>2</sub>-CO<sub>2</sub>T: W<sub>1</sub> is selected from the group consisting of -CR<sub>2</sub>R<sub>4</sub>, -O<sub>-</sub>, -NR<sub>2</sub>, and -S<sub>-</sub>; a, b, d, f, h, i, and i independently vary from 1-10; c, e, g, and k independently vary from 1-100; Ra, Rb, Re, and Rd are defined in the same manner as Y<sub>1</sub>: T is either H or a negative charge; with the proviso that when W<sub>1</sub> is -S-, R<sub>3</sub>-R<sub>7</sub> are not -H or C1-C10 alkyl; and Y<sub>1</sub> is not -H.

16. (PREVIOUSLY PRESENTED) A method for performing a diagnostic procedure which comprises administering to an individual an effective amount of formula 1

$$R_6$$
 $N_1$ 
 $R_7$ 
 $N_1$ 
 $N_1$ 
 $N_1$ 

Formula 1

wherein R<sub>3</sub> to R<sub>7</sub>, and Y<sub>1</sub> are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, C1-C10 aminoalkyl, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C6-C10 alkyl, C1-C10 aryl, -SO<sub>3</sub>T, -CO<sub>2</sub>T, -OH, -(CH<sub>2</sub>)<sub>a</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OSO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHSO<sub>3</sub>T. -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>SO<sub>3</sub>T, -(CH<sub>0</sub>)<sub>0</sub>OCONH(CH<sub>0</sub>)<sub>0</sub>SO<sub>2</sub>T, -(CH<sub>0</sub>)<sub>0</sub>PO<sub>3</sub>HT, -(CH<sub>0</sub>)<sub>0</sub>PO<sub>2</sub>T<sub>0</sub>, -(CH<sub>0</sub>)<sub>0</sub>OPO<sub>3</sub>HT, -(CH<sub>0</sub>)<sub>0</sub>OPO<sub>3</sub>T<sub>0</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHPO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CO<sub>2</sub>(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>OCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>CONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCO(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, -(CH<sub>2</sub>)<sub>a</sub>NHCSNH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>HT, and -(CH<sub>2</sub>)<sub>a</sub>OCONH(CH<sub>2</sub>)<sub>b</sub>PO<sub>3</sub>T<sub>2</sub>, -CHo(CHo-O-CHo),-CHo-OH, -(CHo),-COoT, -CHo-(CHo-O-CHo),-CHo-COoT, -(CHo),-NHo, -CHo-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>n</sub>-CH<sub>2</sub>-NH<sub>2</sub>, -(CH<sub>2</sub>)<sub>n</sub>-N(R<sub>n</sub>)-(CH<sub>2</sub>)<sub>i</sub>-CO<sub>2</sub>T, and -(CH<sub>2</sub>)<sub>i</sub>-N(R<sub>n</sub>)-CH<sub>2</sub>-(CH<sub>2</sub>-O-CH<sub>2</sub>)<sub>k</sub>-CH<sub>2</sub>-CO<sub>2</sub>T: W<sub>1</sub> is selected from the group consisting of -CR<sub>2</sub>R<sub>4</sub>, -O<sub>-</sub>, -NR<sub>2</sub>, and -S<sub>-</sub>; a, b, d, f, h, i, and i independently vary from 1-10; c, e, g, and k independently vary from 1-100; Ra, Rb, Re, and Rd are defined in the same manner as Y<sub>1</sub>: T is either H or a negative charge; with the proviso that when W<sub>1</sub> is -S-, R<sub>3</sub>-R<sub>7</sub> are not -H or C1-C10 alkyl; and Y<sub>1</sub> is not -H.